TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-01-03-01**	**Date: 20-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.	
Agency	:	M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073	
Customer Reference	:	EE/DD/W.O/68/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	17-12-21	
Type of Mix	:	DBM(Dense Bitumnous Macadam)	
Date of Test	:	17-12-21	

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.0	3.0	97.8	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
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Authorized Signatory
Quality Manager

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2022-01-03-01** **Date: 28-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.
Agency	:	M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073
Customer Reference	:	EE/DD/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Date of Receipt	:	27-12-21
Type of Mix	:	DBM (Dense Bituminous Macadam)
Date of Test	:	27-12-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	505	505
2	Weight of the sample After extraction	B	482	481
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.6	4.8
4	Average percentage	%	4.7	

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Lab ID : CP-RW-2022-01-03-01 **Date: 28-12-21**

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 482

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	2	2	0.4	99.6	90-100
19	28	30	6.2	93.8	71-95
13.2	142	172	35.7	64.3	56-80
4.75	101	273	56.6	43.4	38-54
2.36	72	345	71.6	28.4	28-42
0.3	92	437	90.7	9.3	7-21
0.075	32	469	97.3	2.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 481

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0.0	100.0	100
26.5	5	5	1.0	99.0	90-100
19	29	34	7.1	92.9	71-95
13.2	140	174	36.2	63.8	56-80
4.75	99	273	56.8	43.2	38-54
2.36	68	341	70.9	29.1	28-42
0.3	93	434	90.2	9.8	7-21
0.075	35	469	97.5	2.5	2-8

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Quality Manager

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2022-01-03-01** **Date: 23-12-21**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.

Agency : M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073

Customer Reference : EE/DD/W.O/68/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-21

Type of Mix : BC-Plant (Bituminous Concrete)

Date of Test : 21-12-21

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	58	58	1.2	98.8	90-100
9.5	658	716	14.3	85.7	70-88
4.75	801	1517	30.3	69.7	53-71
2.36	825	2342	46.8	53.2	42-58
1.18	705	3047	60.9	39.1	34-48
0.6	498	3545	70.9	29.1	26-38
0.3	488	4033	80.7	19.3	18-28
0.15	298	4331	86.6	13.4	12-20
0.075	352	4683	93.7	6.3	4-10
PAN	317	5000	100	0.0	0

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2022-01-03-01 **Date: 24-12-21**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.

Agency : M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073

Customer Reference : EE/DD/W.O/68/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 21-12-21

Type of Mix : BC(Bitumenous Concrete)

Date of Test : 21-12-21

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.3	Minimum Retained Coating 95%
2	98.0	2.0		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-01-03-01**	**Date: 24-12-21**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.	
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.	
Agency	:	M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073	
Customer Reference	:	EE/DD/W.O/68/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	21-12-21	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	21-12-21	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.8	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.5		
Strength	Aggregate Impact Value	20.9	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.63	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.18	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
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TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2022-01-03-01** **Date: 24-12-21**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.

Agency : M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073

Customer Reference : EE/DD/W.O/68/2021-22

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 21-12-21

Type of Mix : BC (Bituminous Concrete)

Date of Test : 21-12-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.29	11.52	10KN(min)
2	Marshal flow at 60°C, mm	3.72	3.58	2-4
3	Percent air Voids	4.89	4.72	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.08	14.18	13-15
5	Percent Voids filled with Bitumen(VFB %)	72.88	72.01	65-75
6	Density, g/cc	2.26	2.24	–

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Page 1/1
End of Report

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2022-01-03-01

Date: 30-12-21

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.

Agency : M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073

Customer Reference : EE/DD/W.O/68/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 29-12-21

Type of Mix : BC (Bituminous Concrete)

Date of Test : 29-12-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	507	507
2	Weight of the sample After extraction	B	475	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.31	6.11
4	Average percentage	%	6.2	

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Lab ID : CP-RW-2022-01-03-01

Certificate No.: TC-5548

Date: 30-12-21

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 475

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.5	62.5	53-71
2.36	88	266	56.0	44.0	42-58
1.18	29	295	62.1	37.9	34-48
0.6	11	306	64.4	35.6	26-38
0.3	46	352	74.1	25.9	18-28
0.15	45	397	83.6	16.4	12-20
0.075	55	452	95.2	4.8	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 476

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	13.9	86.1	70-88
4.75	112	178	37.4	62.6	53-71
2.36	88	266	55.9	44.1	42-58
1.18	29	295	62.0	38.0	34-48
0.6	11	306	64.3	35.7	26-38
0.3	46	352	73.9	26.1	18-28
0.15	45	397	83.4	16.6	12-20
0.075	55	452	95.0	5.0	4-10

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-01-03-01**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.
Agency	:	M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073
Customer's Reference	:	EE/DD/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-12-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	15-12-21

Date: 17-12-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65	60 to 70
2	Softening Point, °C	52	Min. 40°C
3	Ductility, cm	97	Min. 75cm
4	Flash point, °C	242	Min. 220°C
	Fire point, °C	268	

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : **CP-RW-2022-01-03-01** **Date: 30-12-21**

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.

Agency : M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073

Customer Reference : EE/DD/W.O/68/2021-22

Sample Condition : Satisfactory

Date of Receipt : 29-12-21

Type of Mix : Tack coat

Date of Test : 29-12-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.77	0.74
4	Final weight of plate after application of tack Coat (c)	Kg	0.793	0.763
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 16/12/2021

Lab ID	:	CP-2022-01-03-01
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to road and drain K G halli Gurunath Layout and Surroundings in Ward No 12 Shettyhalli.
Agency	:	M/s. KB Constructions No.1, Shree Nilaya Devara Bavi Road, Behind Rangamandhira, Bagalagunte, Bengaluru, Karnataka-560073
Customer's Reference	:	EE/DD/W.O/68/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-12-21
Customer ID	:	C.C Road
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/12/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
					(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
1	C.C Road	M30	09/12/2021	16/12/2021	150.03 X 150.37 X 150.48	22559	9.006	588.9	26.1	26.6
2	C.C Road	M30	09/12/2021	16/12/2021	151.72 X 151.17 X 151.36	22937	9.000	609.5	26.6	
3	C.C Road	M30	09/12/2021	16/12/2021	151.83 X 151.49 X 149.33	23001	8.282	623.3	27.1	

* The results obtained are satisfactory as per standard requirements.

Note:

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ
ಶೆಟ್ಟಿಹಳ್ಳಿ, ಬೆಂಗಳೂರು

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ 12 ಶೆಟ್ಟಿಹಳ್ಳಿ
ಉಪವಿಭಾಗ, ಬೆಂಗಳೂರು

****End of Report****